

Author Index

Canadian Journal of Animal Science, Volume 82, 2002

- Aalhus, J.L., 59, 327, 449
 Abramson, D., 559
 Armstrong, J.D., 111
 Audren, G.P., 393
 Augspurger, N.R., 445
- Baah, J., 111
 Bach, S.J., 475
 Baidoo, S.K., 367
 Bailey, J.L., 347
 Baker, M.J., 567
 Barbut, S., 305
 Barnett, G., 551
 Beauchemin, K.A., 215, 611
 Beaudry, D., 507
 Beck, P.A., 87
 Beckers, Y., 95
 Bee, G., 311
 Bergeron, R., 159, 587
 Bernier, J.F., 225
 Best, D.R., 59, 461
 Biagi, G., 527
 Boadi, D.A., 125, 151, 201, 465
 Bontempo, V., 115
 Bowman, G.R., 611
 Braithwaite, L., 519
 Brisbane, J.R., 283
 Buchanan-Smith, J.G., 49
- Cambero, I., 339
 Carlier, L., 69
 Carrière, P.D., 357
 Casadei, G., 527
 Castonguay, F., 347
 Castonguay, F.W., 453
 Chambaz, A., 133
 Charmley, E., 575
 Chedrese, P.J., 295
 Cheng, K.-J., 111
 Christensen, C.R., 295
 Christensen, D.A., 103, 207, 215, 251
 Christopherson, R.J., 79, 165
 Classen, H.L., 393
 Coates, T., 435
 Cohen, R.D.H., 621
 Cook, N.J., 11
 Corino, C., 115
 Cosgrove, S.J., 79
 Crews, D.H., Jr., 503
 Crow, G.H., 559
 Cue, R.I., 29
 Curry, P., 621
- D'Arrigo, M., 339
 da Costa Gomez, C., 69
- Day, P.A., 119
 de Lange, C.F.M., 385
 de Passillé, A.M., 1
 Demeyer, D., 69
 Díaz-Godínaz, G., 617
 Drew, M.D., 607
 Dufey, P.-A., 133
 Duff, G.C., 87
 Dugan, M.E.R., 59, 449, 461
 Duncan, J.H., 1
 Durocher, J., 357
- Ekpe, E.D., 541, 607
 Ellis, M., 445
 Erin, K., 41
 Estrada, A.E., 607
- Fan, M.Z., 183
 Farmer, C., 507
 Fievez, V., 69
 Forsberg, M., 599
 Fortin, A., 41, 141, 595
 Fox, D.G., 567
 Framer, C., 159
 Froidmont, E., 95
- Gagné, F., 551
 Gannon, V.P.J., 475
 Goonewardene, L.A., 119, 471
 Goulet, F., 453
 Grandhi, R.R., 173, 399
 Gresham, J., 133
 Guilbault, L.A., 357
 Gunter, S.A., 87
 Gurung, N.K., 385
- Hacker, R.R., 267
 Hayes, J.F., 29
 Holley, R.A., 475
 House, J.D., 559
 Hoz, L., 339
- Jannasch, R.W., 575
 Janz, J.A.M., 259, 327
 Jauhainen, L., 275
 Jeurond, E.A., 385
- Kawchuk, L.M., 111
 Kegley, E.B., 87
 Kennedy, A.D., 125
 Ketchen, D.J., 567
 Kirkwood, R.N., 457
 Koenig, K.M., 435
 Kohram, H., 357
- Korhonen, H.T., 275
 Kowalski, J., 295
 Kreuzer, M., 133, 233
- Laarveld, B., 295
 Laborde, F.L., 49
 Landry, S.J., 41
 Lapierre, H., 225
 Larbier, M., 193
 Lardner, H.A., 621
 Leslie, K.E., 427
 Lessard, M., 519
 Lessire, M., 193
 Li, B.T., 79, 165
 Lopez-Bote, C.J., 339
- MacFarlane, L., 621
 Machmüller, A., 233
 Macinnis, R., 449
 Maekawa, M., 215
 Maenz, D.D., 103, 251
 Malcolm-Callis, K.J., 87
 Mandell, I.B., 49
 Marcoux, M., 595
 Marsh, T.J., 19
 Mathlouthi, N., 193
 Matte, J.J., 551
 Mbamzamihigo, L., 69
 McAllister, T.A., 111, 475
 McBride, B.W., 267, 427
 McCaughey, W.P., 151, 465
 McGinn, S.M., 435
 McKinnon, J.J., 103, 207, 251
 Meadus, W.J., 449, 461
 Meunier-Salaün, M.C., 159, 587
 Misra, V., 295
 Mohamed, M.A., 193
 Morrier, A., 347
 Mosenthin, R., 79
 Moshtaghi Nia, S.A., 419, 465
 Mustafa, A.F., 103, 207
- Nadeau, P., 241
 Nyachoti, C.M., 367, 399, 599
- Okine, E.K., 119, 165, 471
 Olson, B.E., 491
 Ordóñez, J.A., 339
 Oryschak, M.A., 533, 603
 Osborne, V.R., 267, 427
 Owusu-Asiedu, A., 367

- Palin, M.F., 507
Patience, J.F., 541
Patrick, D., 119
Patrick, N., 119
Petit, H.V., 241
Piattoni, F., 69
Pin, C., 339
Pinczak, A., 599
Piva, A., 527
Pomar, C., 551, 595
Price, C.A., 357
Price, M.A., 327
- Racz, V.J., 103, 251
Redmond, M.J., 295
Rekilä, T., 275
Rey, A.I., 339
Roberge, C., 507
Robert, S., 159, 587
Robertson, W.M., 41, 59
Rodd, A.V., 575
Rolland, D.C., 461
Rubianes, E., 599
Ruchen, J., 1
Razcz, V., 393
- Sánchez, C., 617
Sauer, W.C., 79, 183
Schaefer, A.L., 11
Schaeffer, L., 263
Scheer, H.D., 119
Schwean, K.V., 393
Sciannimanico, D., 115
Scollard, D.L., 19
Scott, T.A., 111, 375, 409
Selinger, L.B., 111
Sharpe, P.H., 385
Shelford, J.A., 611
Simmins, P.H., 533
Soita, H.W., 207
Soliva, C.R., 233
St-Onge, A., 29
Suleiman, A., 119, 471
Swatland, H.J., 321
- Taylor, A.A., 519
Tedeschi, L.O., 567
ten Haff, W., 457
Thacker, P.A., 457
Théwis, A., 95
Thivierge, M.C., 225
- Thompson, R.K., 103
Tom, E.M., 1
Tosh, J.J., 49, 591
Tozer, P.R., 19
Tremblay, E., 241
Tremblay, G.F., 241
- Ungerfeld, R., 599
- Van Kessel, A.G., 607
Veira, D.M., 475
- Walker, D.A., 87
Wallander, R.T., 491
Weary, D.M., 519
Williams, C.M., 123
Wilton, J.W., 49, 591
Wittenberg, K.M., 125, 151, 201, 419, 465
Wright, S.B.M., 621
- Yin, Y.-L., 385
Yu, P., 251
- Zijlstra, R.T., 533, 541, 603, 607

Subject Index

Canadian Journal of Animal Science, Volume 82, 2002

- Activity
 activity patterns of beef cows
 grazing winter range, 491
- Adipose tissue
 effect of dietary linseed oil and α -tocopherol on pig fat, 339
- α_2 -adrenoceptor agonist
 pig thermogenesis and digestibility, 79
- Alkanes
 use of alkanes as marker, 419
 n-alkanes of native and cultivated forages, 465
- Amino acid
 dietary methionine-to-lysine ratio for pig performance, 399
 ileal and fecal digestibility of grains in pigs, 385
 methionine requirement for finishing bulls, 95
 microbial phytase effect on protein utilization in pigs, 551
 utilizing peas in early-weaned pig diets, 367
- Ammonia
 diet effects on odorant emissions from cattle manure, 435
 modulation of intestinal microflora with organic acids, 527
- Ammonia treatment
 ammonia-treated oat hulls, 103
- Amylase
 utilizing peas in early-weaned pig diets, 367
- Analgesia
 stress in elk, 11
- Anoestrus
 ewe reproductive performance, 453
- Antibody formation
 immune response of piglets after castration, 519
- Artificial insemination
 glycerol and ram sperm conservation, 347
- Ascites
 light, diet form and density on broiler performance, 375
- Backfat
 successive measurements of fat and muscle depths, 595
- Barley
 deoxynivalenol and performance of growing-finishing swine, 559
 dietary cereal effects on gut bacteria in weaned pigs, 607
 effect of xylanase on laying hen performance, 193
 transgenic potato for broiler diets, 111
- Barley silage
 forage particle size in barley-based diets, 207
- Beef
 lighting on ground beef acceptability, 305
 predicting calving difficulty peripartum, 19
 ultrasound-predicted intramuscular fat, 133
- Beef carcass
 very fast chilling of beef carcasses, 59
- Beef cattle
 management effects on beef fatty acid composition, 49
 sire carcass EPD and progeny performance, 503
- Beef grade, Canadian
 quality and yield characteristics of Canada B3 carcasses, 41
- Beef, ground
 lighting on ground beef acceptability, 305
- Beef quality
 very fast chilling of beef carcasses, 59
- Beef steer
 copper for growing cattle, 87
- Behaviour
 activity patterns of beef cows grazing winter range, 491
 behavioural response to food texture and fibre intake, 587
 tail docking of calves, 1
- Biladyl
 glycerol and ram sperm conservation, 347
- Biodegradation
 enzymic release of hydroxycinnamic acids from oat hulls, 251
- Biohydrogenation
 heating flaxseed and biohydrogenation of fatty acids, 241
- Bison
 bison muscle fibre traits, 259
 quality of very fast chilled bison, 327
- Breed type, cattle
 direct methane measurement in cattle, 201
- Breeding strategies
 terminal-sire index for rams, 591
- Breeding value, estimated
 economic values for dairy cattle improvement, 29
- Broiler chicken
 light, diet form and density on broiler performance, 375
 nutritional value of wheat screenings for broilers, 393
 transgenic potato for broiler diets, 111
 wet wheat-based diets for broilers, 409
- Buckwheat, wild
 nutritional value of wheat screenings for broilers, 393
- Burn
 nutritive value of grass-legume hay, 621
- Calcium
 lauric acid-calcium interaction and methanogenesis, 233
- Calf
 tail docking of calves, 1
- Canada beef grade
 quality and yield characteristics of Canada B3 carcasses, 41
- Carbohydrate
 particle size and enzymes affect nutrient excretion in pigs, 533
- Carbohydrate supply
 glycolytic potential and dietary carbohydrate supply, 311
- Carbon dioxide
 validation of SF₆ tracer gas technique, 125
- Carcass
 feeding goats processed diets, 471
 sire carcass EPD and progeny performance, 503
- Carcass characteristics
 terminal-sire index for rams, 591
- Carcass composition
 management effects on beef fatty acid composition, 49

- Carcass merit
deoxynivalenol and performance of growing-finishing swine, 559
- Castration
immune response of piglets after castration, 519
- Cattle
activity patterns of beef cows grazing winter range, 491
diet effects on odorant emissions from cattle manure, 435
transmission and control of *Escherichia coli* O157, 475
ultrasound-predicted intramuscular fat, 133
validation of SF₆ tracer gas technique, 125
- Cattle breed type
direct methane measurement in cattle, 201
- Cattle, dairy
drinking water temperature and production, 267
economic values for dairy cattle improvement, 29
meal patterns of lactating dairy cows, 215
protein supply and feeding frequency, 225
- Caecum
modulation of intestinal microflora with organic acids, 527
- Chicken, broiler
light, diet form and density on broiler performance, 375
nutritional value of wheat screenings for broilers, 393
transgenic potato for broiler diets, 111
wet wheat-based diets for broilers, 409
- Chilling, rapid
quality of very fast chilled bison, 327
very fast chilling of beef carcasses, 59
- Chlortetracycline
glycerol and ram sperm conservation, 347
- Chromium oxide
use of alkanes as marker, 419
- CIDR
delaying the LH surge and altering LH during superstimulation, 357
- Clover
rumen methane emissions from mixed pastures, 69
- Collagen
ultrasound-predicted intramuscular fat, 133
- Colour
lighting on ground beef acceptability, 305
- Conjugated linoleic acid
conjugated linoleic acid affects immune parameters in piglets, 115
conjugated linoleic acid effects on liver vitamin A, 461
- Copper
copper for growing cattle, 87
- Corn
dietary cereal effects on gut bacteria in weaned pigs, 607
- Cornell Net Carbohydrate and Protein System
comparison of a slow-release urea product and urea, 567
- Coronet band
predicting calving difficulty peri-partum, 19
- Cortisol
protein supply and feeding frequency, 225
tail docking of calves, 1
- Cultivar
n-alkanes of native and cultivated forages, 465
- Daily voluntary diet intake
digestibility of maize straw after *Pleurotus ostreatus* cultivation, 617
- Degradability
heating flaxseed and biohydrogenation of fatty acids, 241
- Deoxynivalenol
deoxynivalenol and performance of growing-finishing swine, 559
- Dark, firm and dry
pre-slaughter stressors and pork quality, 141
- Diet
diet effects on odorant emissions from cattle manure, 435
management effects on beef fatty acid composition, 49
transmission and control of *Escherichia coli* O157, 475
- Diet density
light, diet form and density on broiler performance, 375
- Diet, high energy
effects of feeding high-energy diets to goats, 119
- Diet, high-fibre
behavioural response to food texture and fibre intake, 587
- Digestibility
apparent phosphorus digestibility in pigs, 183
ileal and fecal digestibility of grains in pigs, 385
particle size and nitrogen excretion in pigs, 603
pig thermogenesis and digestibility, 79
- Domestication
reproductive performance of mink, 275
- Drinking water temperature
drinking water temperature and production, 267
- Dry matter degradation
fresh substrates treated with enzymes, 611
- Dry matter digestibility
use of alkanes as marker, 419
- Dry matter intake
use of alkanes as marker, 419
- Dry matter loss
digestibility of maize straw after *Pleurotus ostreatus* cultivation, 617
- Duodenal infusion
methionine requirement for finishing bulls, 95
- Dystocia
predicting calving difficulty peri-partum, 19
- Early-weaned pig
utilizing peas in early-weaned pig diets, 367
- Eating attributes
quality and yield characteristics of Canada B3 carcasses, 41
- Economic value
economic values for dairy cattle improvement, 29
- Energy
ileal and fecal digestibility of grains in pigs, 385
particle size and nitrogen excretion in pigs, 603
- Environment
pig thermogenesis and digestibility, 79
- Environmental temperature
effect of VIP and temperature on intake, 165
- Enzyme
fresh substrates treated with enzymes, 611
wet wheat-based diets for broilers, 409

- Escherichia coli* O157:H7
transmission and control of
Escherichia coli O157, 475
- Estimated breeding value
economic values for dairy cattle
improvement, 29
- Ewe
ewe reproductive performance, 453
- Excretion
particle size and nitrogen excretion
in pigs, 603
- Expected progeny difference
sire carcass EPD and progeny
performance, 503
- Expression
pig STAT5A and STAT5B
expression, 507
- Extrusion
utilizing peas in early-weaned pig
diets, 367
- Fatty acid
effect of dietary linseed oil and
 α -tocopherol on pig fat, 339
management effects on beef fatty
acid composition, 49
- Feed
apparent phosphorus digestibility
in pigs, 183
feeding goats processed diets, 471
nutritional value of wheat
screenings for broilers, 393
- Feed conversion
prediction of total feed intake in
growing pigs, 283
- Feed efficiency
prediction of total feed intake in
growing pigs, 283
- Feed intake
deoxynivalenol and performance of
growing-finishing swine, 559
drinking water temperature and
production, 267
effect of VIP and temperature on
intake, 165
microbial phytase effect on protein
utilization in pigs, 551
wet wheat-based diets for broilers,
409
- Feeding frequency
endocrine response to fibre intake
and number of meals, 159
protein supply and feeding
frequency, 225
- Feeding management
meal patterns of lactating dairy
cows, 215
- Feeding patterns
weighing affects feeding patterns
of pigs, 445
- Fermentation patterns
forage particle size in barley-based
diets, 207
- Fertility
ewe reproductive performance, 453
- Fertilizer
nutritive value of grass-legume
hay, 621
- Ferulic acid esterase
enzymic release of
hydroxycinnamic acids from oat
hulls, 251
- Fibre
modulation of intestinal microflora
with organic acids, 527
- Fibre intake
endocrine response to fibre intake
and number of meals, 159
- Field-recorded data
economic values for dairy cattle
improvement, 29
- Follistatin
characterization of a recombinant
porcine follistatin, 295
- Food texture
behavioural response to food
texture and fibre intake, 587
- Forage quality
direct methane measurement in
cattle, 201
- Forage species
n-alkanes of native and cultivated
forages, 465
- Gestation
behavioural response to food
texture and fibre intake, 587
endocrine response to fibre intake
and number of meals, 159
- Gilt
 β -glucanase transgenic potato for
broiler diets, 111
gonadotrophin treatment of cyclic
gilts, 457
- Glucose
endocrine response to fibre intake
and number of meals, 159
water and the transition dairy cow,
427
- Glycogen
bison muscle fibre traits, 259
- Glycogen potential
a PCR-RFLP method to identify
the RN⁻ gene in retail pork
chops, 449
- Glycolytic potential
glycolytic potential and dietary
carbohydrate supply, 311
- Glycoprotein
characterization of a recombinant
porcine follistatin, 295
- GnRH
delaying the LH surge and altering
LH during superstimulation, 357
- Goat
effects of feeding high-energy diets
to goats, 119
feeding goats processed diets, 471
- Gonadotrophin
gonadotrophin treatment of cyclic
gilts, 457
ovarian responses to the "ram
effect", 599
- Grain
ileal and fecal digestibility of
grains in pigs, 385
- Grain supplementation
grain supplementation on methane
production of steers, 151
- Grass-legume hay
nutritive value of grass-legume
hay, 621
- Grazing
spring turnout and cattle weight
gain, 575
- Grazing steers
grain supplementation on methane
production of steers, 151
- Ground beef
lighting on ground beef
acceptability, 305
- Growth
comparison of a slow-release urea
product and urea, 567
effects of feeding high-energy diets
to goats, 119
terminal-sire index for rams, 591
- Growth performance
dietary methionine to lysine ratio
for pig performance, 399
- Hamburger
lighting on ground beef
acceptability, 305
- Hampshire
dietary ideal amino acid ratios for
sow lactation, 173
- Heat production
pig thermogenesis and digestibility,
79
- Heat shock promoter
characterization of a recombinant
porcine follistatin, 295
- Heifer
predicting calving difficulty
peri-partum, 19

- Hen
effect of xylanase on laying hen performance, 193
- Hide thickness
ultrasound-predicted intramuscular fat, 133
- High-fibre diet
behavioural response to food texture and fibre intake, 587
- Hydroxycinnamic acids
enzymic release of hydroxycinnamic acids from oat hulls, 251
- Ideal amino acid
dietary ideal amino acid ratios for sow lactation, 173
- Ileum
pig thermogenesis and digestibility, 79
- Immune response
CLA affects immune parameters in piglets, 115
- In vitro
heating flaxseed and biohydrogenation of fatty acids, 241
- Infrared thermography
stress in elk, 11
- Insulin
endocrine response to fibre intake and number of meals, 159
- Inter-oestrus interval
gonadotrophin treatment of cyclic gilts, 457
- Intestinal bacteria
dietary cereal effects on gut bacteria in weaned pigs, 607
- Intramuscular fat
ultrasound-predicted intramuscular fat, 133
- Kinase
pig STAT5A and STAT5B expression, 507
- Lactate
bison muscle fibre traits, 259
- Lactation
dietary ideal amino acid ratios for sow lactation, 173
- Lamb
nutritive value of grass-legume hay, 621
- Lauric acid
lauric acid-calcium interaction and methanogenesis, 233
- Laying
effect of xylanase on laying hen performance, 193
- Level of intake
direct methane measurement in cattle, 201
- Lighting
light, diet form and density on broiler performance, 375
- Lignosulphonate
heating flaxseed and biohydrogenation of fatty acids, 241
- Linseed oil
effect of dietary linseed oil and α -tocopherol on pig fat, 339
- Lipid
lauric acid-calcium interaction and methanogenesis, 233
- Location
n-alkanes of native and cultivated forages, 465
- Longissimus muscle
management effects on beef fatty acid composition, 49
- Luteinizing hormone
delaying the LH surge and altering LH during superstimulation, 357
- Lymphocyte
immune response of piglets after castration, 519
- Lysine
dietary methionine-to-lysine ratio for pig performance, 399
- Mammary gland
pig STAT5A and STAT5B expression, 507
- Manure
diet effects on odorant emissions from cattle manure, 435
- Mash
light, diet form and density on broiler performance, 375
- Meal patterns
meal patterns of lactating dairy cows, 215
- Meat
lighting on ground beef acceptability, 305
- Meat quality
glycolytic potential and dietary carbohydrate supply, 311
quality of very fast chilled bison, 327
- Methane
direct methane measurement in cattle, 201
grain supplementation on methane production of steers, 151
lauric acid-calcium interaction and methanogenesis, 233
rumen methane emissions from mixed pastures, 69
validation of SF₆ tracer gas technique, 125
- Methionine
dietary methionine-to-lysine ratio for pig performance, 399
methionine requirement for finishing bulls, 95
- Micronization
heating flaxseed and biohydrogenation of fatty acids, 241
utilizing peas in early-weaned pig diets, 367
- Milk production
protein supply and feeding frequency, 225
- Milk yield
drinking water temperature and production, 267
- Mink, farm-bred
reproductive performance of mink, 275
- Modelling
comparison of a slow-release urea product and urea, 567
- Muscle depth
successive measurements of fat and muscle depths, 595
- Muscle fibre
pork paleness, 321
- Muscle fibre type
bison muscle fibre traits, 259
- Muscling
quality and yield characteristics of Canada B3 carcasses, 41
- Native pasture
spring turnout and cattle weight gain, 575
- Nitrogen
particle size and enzymes affect nutrient excretion in pigs, 533
particle size and nitrogen excretion in pigs, 603
- Nitrogen fertilization
rumen methane emissions from mixed pastures, 69
- Nitrogen pollution
methionine requirement for finishing bulls, 95
- Non-protein nitrogen
comparison of a slow-release urea product and urea, 567
- Nutrient metabolism
dietary methionine-to-lysine ratio for pig performance, 399

- Nutrient utilization
 - ammonia-treated oat hulls, 103
- Nutrition
 - CLA affects immune parameters in piglets, 115
 - comparison of a slow-release urea product and urea, 567
- Oat hulls
 - ammonia-treated oat hulls, 103
 - enzymic release of hydroxycinnamic acids from oat hulls, 251
- Odour intensity
 - diet effects on odorant emissions from cattle manure, 435
- Oestradiol
 - characterization of a recombinant porcine follistatin, 295
 - delaying the LH surge and altering LH during superstimulation, 357
- Oestrus synchronization
 - ewe reproductive performance, 453
- Ordered logit
 - predicting calving difficulty peri-partum, 19
- Organic acids
 - modulation of intestinal microflora with organic acids, 527
- Ovarian follicular dynamics
 - ovarian responses to the "ram effect", 599
- Ovary
 - characterization of a recombinant porcine follistatin, 295
- Pain
 - tail docking of calves, 1
- Palatability attributes
 - management effects on beef fatty acid composition, 49
- Paleness
 - pork paleness, 321
 - pre-slaughter stressors and pork quality, 141
- Parity
 - meal patterns of lactating dairy cows, 215
- Particle size
 - forage particle size in barley-based diets, 207
 - particle size and enzymes affect nutrient excretion in pigs, 533
 - particle size and nitrogen excretion in pigs, 603
- Pasture quality
 - grain supplementation on methane production of steers, 151
- Performance
 - deoxynivalenol and performance of growing-finishing swine, 559
 - feeding goats processed diets, 471
 - transgenic potato for broiler diets, 111
- Personality trait
 - reproductive performance of mink, 275
- Phosphorus
 - apparent phosphorus digestibility in pigs, 183
 - particle size and enzymes affect nutrient excretion in pigs, 533
 - phosphorus requirement of grower pigs, 541
- Phytase
 - microbial phytase effect on protein utilization in pigs, 551
 - particle size and enzymes affect nutrient excretion in pigs, 533
- Pig
 - a PCR-RFLP method to identify the RN⁻ gene in retail pork chops, 449
 - apparent phosphorus digestibility in pigs, 183
 - characterization of a recombinant porcine follistatin, 295
 - conjugated linoleic acid effects on liver vitamin A, 461
 - dietary cereal effects on gut bacteria in weaned pigs, 607
 - dietary methionine-to-lysine ratio for pig performance, 399
 - effect of dietary linseed oil and α -tocopherol on pig fat, 339
 - endocrine response to fibre intake and number of meals, 159
 - glycolytic potential and dietary carbohydrate supply, 311
 - ileal and fecal digestibility of grains in pigs, 385
 - immune response of piglets after castration, 519
 - microbial phytase effect on protein utilization in pigs, 551
 - particle size and enzymes affect nutrient excretion in pigs, 533
 - particle size and nitrogen excretion in pigs, 603
 - phosphorus requirement of grower pigs, 541
 - pig STAT5A and STAT5B expression, 507
- pig thermogenesis and digestibility, 79
- weighing affects feeding patterns of pigs, 445
- Pig, early-weaned
 - utilizing peas in early-weaned pig diets, 367
- Piglet
 - CLA affects immune parameters in piglets, 115
 - dietary ideal amino acid ratios for sow lactation, 173
- Plasma
 - methionine requirement for finishing bulls, 95
- Pleurotos ostreatus* cultivation
 - digestibility of maize straw after *Pleurotos ostreatus* cultivation, 617
- Pork
 - pork paleness, 321
 - pre-slaughter stressors and pork quality, 141
 - successive measurements of fat and muscle depths, 595
- Pork quality
 - pre-slaughter stressors and pork quality, 141
- Post-partum
 - ewe reproductive performance, 453
- Pregnancy
 - pig STAT5A and STAT5B expression, 507
- PRKAG3
 - a PCR-RFLP method to identify the RN⁻ gene in retail pork chops, 449
- Processing
 - feeding goats processed diets, 471
- Profitability
 - economic values for dairy cattle improvement, 29
- Progesterone
 - delaying the LH surge and altering LH during superstimulation, 357
- Prolificacy
 - ewe reproductive performance, 453
- Protein
 - protein supply and feeding frequency, 225
- Protein deposition
 - microbial phytase effect on protein utilization in pigs, 551
- Purines
 - protein supply and feeding frequency, 225
- Quality
 - quality and yield characteristics of Canada B3 carcasses, 41

- Ram effect
ovarian responses to the "ram effect", 599
- Rapid chilling
very fast chilling of beef carcasses, 59
- Recursive systems
predicting calving difficulty peripartum, 19
- Rejuvenation
nutritive value of grass-legume hay, 621
- Reproductive performance
reproductive performance of mink, 275
- Resting period
pre-slaughter stressors and pork quality, 141
- Retinol
conjugated linoleic acid effects on liver vitamin A, 461
- Retinol binding protein
conjugated linoleic acid effects on liver vitamin A, 461
- Rib-eye area
effects of feeding high-energy diets to goats, 119
- RN⁻
a PCR-RFLP method to identify the RN⁻ gene in retail pork chops, 449
- Rumen
rumen methane emissions from mixed pastures, 69
- Ruminal degradation
ammonia-treated oat hulls, 103
- Ruminant
lauric acid-calcium interaction and methanogenesis, 233
methionine requirement for finishing bulls, 95
- Rusitec
lauric acid-calcium interaction and methanogenesis, 233
- Ryegrass
rumen methane emissions from mixed pastures, 69
- Salivary cortisol
stress in elk, 11
- Season
rumen methane emissions from mixed pastures, 69
- Seasonal anoestrus
ovarian responses to the "ram effect", 599
- Selection
terminal-sire index for rams, 591
- Serum
copper for growing cattle, 87
- Serum urea
water and the transition dairy cow, 427
- SF₆ tracer technique
direct methane measurement in cattle, 201
validation of SF₆ tracer gas technique, 125
- Sheep
effect of VIP and temperature on intake, 165
glycerol and ram sperm conservation, 347
terminal-sire index for rams, 591
- Shelter
activity patterns of beef cows grazing winter range, 491
- Signal transducers
pig STAT5A and STAT5B expression, 507
- Silage, barley
forage particle size in barley-based diets, 207
- Soft and exudative
pre-slaughter stressors and pork quality, 141
- Sow
behavioural response to food texture and fibre intake, 587
dietary ideal amino acid ratios for sow lactation, 173
- Spectra
lighting on ground beef acceptability, 305
- Spermatozoa
glycerol and ram sperm conservation, 347
- Steer
use of alkanes as marker, 419
- Steer, grazing
grain supplementation on methane production of steers, 151
- Steer performance
spring turnout and cattle weight gain, 575
- Stress
immune response of piglets after castration, 519
stress in elk, 11
tail docking of calves, 1
- Successive probing
successive measurements of fat and muscle depths, 595
- Sudden death
light, diet form and density on broiler performance, 375
- Superstimulation (FSH)
delaying the LH surge and altering LH during superstimulation, 357
- Swine
deoxynivalenol and performance of growing-finishing swine, 559
modulation of intestinal microflora with organic acids, 527
prediction of total feed intake in growing pigs, 283
- Tail docking
tail docking of calves, 1
- Temperament
reproductive performance of mink, 275
- Temperature, environmental
effect of VIP and temperature on intake, 165
- Temperature, drinking water
drinking water temperature and production, 267
- Tenderness
very fast chilling of beef carcasses, 59
- α -tocopherol
effect of dietary linseed oil and α -tocopherol on pig fat, 339
- Transformed potato
transgenic potato for broiler diets, 111
- Transition cow
water and the transition dairy cow, 427
- Transmission
transmission and control of *Escherichia coli* O157, 475
- Transport
pre-slaughter stressors and pork quality, 141
- Triladyl
glycerol and ram sperm conservation, 347
- Ultrasonography
ovarian responses to the "ram effect", 599
ultrasound-predicted intramuscular fat, 133
- Validation
validation of SF₆ tracer gas technique, 125
- Vasoactive intestinal peptide
effect of VIP and temperature on intake, 165
- Velvet antler
stress in elk, 11

- Very fast chilling
 - quality of very fast chilled bison, 327
- Vitamin A
 - conjugated linoleic acid effects on liver vitamin A, 461
- Volatile fatty acid
 - diet effects on odorant emissions from cattle manure, 435
 - modulation of intestinal microflora with organic acids, 527
- Wapiti
 - stress in elk, 11
- Water intake
 - drinking water temperature and production, 267
- Water supplementation
 - water and the transition dairy cow, 427
- Weather
 - activity patterns of beef cows grazing winter range, 491
- Weighing
 - weighing affects feeding patterns of pigs, 445
- Wet-feeding
 - wet wheat-based diets for broilers, 409
- Wheat
 - dietary cereal effects on gut bacteria in weaned pigs, 607
 - effect of xylanase on laying hen performance, 193
 - wet wheat-based diets for broilers, 409
- Wheat bran
 - effect of xylanase on laying hen performance, 193
- Wheat screenings
 - nutritional value of wheat screenings for broilers, 393
- Wild buckwheat
 - nutritional value of wheat screenings for broilers, 393
- Winter annual
 - copper for growing cattle, 87
- Xylanase
 - effect of xylanase on laying hen performance, 193
 - utilizing peas in early-weaned pig diets, 367
- Yield
 - quality and yield characteristics of Canada B3 carcasses, 41
- Yorkshire
 - dietary ideal amino acid ratios for sow lactation, 173